

ABSTRACT

A personalized web page is generated by an Electronic Publishing System (EPS) based on predetermined profiles representative of the user's optimum mode of learning. The user's optimum mode of learning is based upon the Theory of Multiple Intelligences for seven (7) different modes of learning. An algorithm calculates user profiles based upon the learning theory. Alternatively, the user fills out a questionnaire provided by the system to determine the user's optimum mode of learning. The questionnaire elicits answers used to calculate the user's optimum mode of learning. An algorithm calculates the user's profile and encodes the profile as a vector of weights for the seven modes of learning. Document templates are created to define the structure of information to be presented to the user. The templates are created with industry standard Document Type Definition (DTD) syntax. Style sheets determine the manner of layout of the information in the template. The XSL style sheet is combined with content in the format of Extensible Markup Language (XML) to produce a Hypertext Markup Language (HTML) output files to be viewed by the users. HTML files corresponding to different modes of learning using the style sheets and the content previously created are stored. The user profile is incorporated into an HTTP cookie or in the Uniform Resource Locator (URL) string. When a user requests information, the user profile is obtained from the cookie or server and the information is presented to the user based on his/her profile which displays the information in the user's optimum learning mode.